Solef® 21510

Polyvinylidene Fluoride

Solvay Specialty Polymers

Message:

Solef® 21510 PVDF copolymer has medium viscosity and is suitable for extrusion and for solution processing in lithium batteries applications.

General Information	
Features	Copolymer
	Good Flexibility
	Medium Viscosity
Processing Method	Extrusion
	Solution Processing

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.75 to 1.80	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/5.0 kg)	3.0 to 9.0	g/10 min	ASTM D1238
Water Absorption (23°C, 24 hr)	< 0.040	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus [1] (23°C, 2.00 mm)	360 to 480	MPa	ASTM D638
Tensile Strength [2]			ASTM D638
Yield, 23°C, 2.00 mm	15.0 to 18.0	MPa	
Break, 23°C, 2.00 mm	20.0 to 40.0	MPa	
Tensile Elongation [3]			ASTM D638
Yield, 23°C, 2.00 mm	12 to 15	%	
Break, 23°C, 2.00 mm	600 to 750	%	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Glass Transition Temperature	-40.0	°C	ASTM D4065
Melting Temperature	130 to 136	°C	ASTM D3418
Peak Crystallization Temperature (DSC)	89.0 to 93.0	°C	ASTM D3418
Crystallization Heat	20.0 to 24.0	J/g	ASTM D3417
Heat of Fusion	20.0 to 24.0	J/g	ASTM D3417
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	> 1.0E+14	ohms	ASTM D257
Volume Resistivity	> 1.0E+14	ohms·cm	ASTM D257
NOTE			
1.	Type IV, 1.0 mm/min		
2.	Type IV, 50 mm/min		
3.	Type IV, 50 mm/min		

Recommended distributors for this material

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